

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 041 - 05687 County Lewis District Hackers Creek  
Quad Weston 7.5' Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name Charles D. Cole II Well Number Guy Alkire #3  
Operator (as registered with the OOG) Mike Ross, Inc.  
Address P O Box 219 City Coalton State WV Zip 26257

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing N/A Easting N/A  
Landing Point of Curve Northing N/A Easting N/A  
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1401' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final  
Permit Type ☐ Deviated ☐ Horizontal ☐ Horizontal 6A ☒ Vertical Depth Type ☐ Deep ☒ Shallow  
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☒ Stimulate  
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☐ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other \_\_\_\_\_  
Type of Completion ☐ Single ☒ Multiple Fluids Produced ☐ Brine ☒ Gas ☐ NGL ☐ Oil ☐ Other \_\_\_\_\_  
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine  
Production hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine  
Mud Type(s) and Additive(s)  
N/A

Date permit issued 11/21/2013 Date drilling commenced 06/11/2014 Date drilling ceased 06/17/14  
Date completion activities began 07/07/2014 Date completion activities ceased 07/07/14  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 1 1/2" stream @ 200 ft Open mine(s) (Y/N) depths N/A  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N/A  
Coal depth(s) ft 524 Cavern(s) encountered (Y/N) depths N/A  
Is coal being mined in area (Y/N) N

Reviewed by:

JK

API 47-041 - 05687 Farm name Charles D. Cole II Well number Guy Alkire #3

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	20"	16"	32'	New			Y
Surface	11 3/4"	8 5/8"	1077'	New	20#	200	Y
Coal	11 3/4"	8 5/8"	1077'	New	20#	550	Y
Intermediate 1	11 3/4"	8 5/8"	1077'	New	20#		Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	4 1/2"	4284'	New	10:80		N
Tubing	None						
Packer type and depth set		None					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	50-50 poz	10					12 Hr
Surface	50-50 poz	20					12 Hr
Coal							
Intermediate 1	50-50 poz	225					12 Hr
Intermediate 2							
Intermediate 3							
Production	50-50 poz	600				1350'	240 Hr
Tubing							

Drillers TD (ft) 5001 Loggers TD (ft) 5003  
 Deepest formation penetrated Benson Plug back to (ft) 4285  
 Plug back procedure 2% gel and cement

Kick off depth (ft) N/A

Check all wireline logs run ☒ caliper ☒ density ☐ deviated/directional ☒ induction  
☒ neutron ☐ resistivity ☒ gamma ray ☒ temperature ☐ sonic

Well cored ☐ Yes ☒ No Conventional Sidewall Were cuttings collected ☐ Yes ☐ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
8 5/8" 220' - 600'  
4 1/2" 4220' - 3170' - 1600'

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS \_\_\_\_\_

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47-041 . 05687

Farm name **Charles D. Cole II**

W. J. G. Alkire #3

## PERFORATION RECORD

[illegible]

**Please insert additional pages as applicable.**

### STIMULATION INFORMATION PER STAGE

**Complete a separate record for each stimulation stage.**

[illegible]

**Please insert additional pages as applicable.**

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PRODUCING FORMATION(S)

DEPTHS

Benson	4180-4200	TVD	MD
Balltown	2880-3110 - Stringers		
Bayard	2260-2270		
Injun	1500-1520		

**Please insert additional pages as applicable.**

**GAS TEST**   ☒ Build up   ☐ Drawdown   ☐ Open Flow   **OIL TEST**   ☐ Flow   ☐ Pump

SHUT-IN PRESSURE Surface 400 psi Bottom Hole N/A psi DURATION OF TEST 72 hrs

OPEN FLOW      Gas      Oil      NGL      Water      GAS MEASURED BY

400      0      0      0      ■ Estimated      □ Orifice      □ Pilot

mcfpd      bpd      bpd      bpd

[illegible]

Please insert additional pages as applicable.

Drilling Contractor Waco Oil & Gas Company, Inc.  
Address P O Box 397 City Glenville State WV Zip 26351

Logging Company Weatherford  
Address 320 Weatherford Blvd. City Buckhannon State WV Zip 26201

Cementing Company Universal Well Services, Inc.  
Address Route 5 Hall Road City Buckhannon State WV Zip 26201

Stimulating Company Universal Well Services, Inc.  
Address Route 5 Hall Road City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Mike Ross Telephone 304-472-4289  
Signature *Mike Ross* Title Chairman of the Board Date 02/12/2015

**Submittal of Hydraulic Fracturing Chemical Disclosure Information**      **Attach copy of FRACFOCUS Registry**